

## Claims:

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- 1. An insect trap comprising an outer casing, an inner casing and a source of electromagnetic radiation, the outer casing having an opening, the inner casing being mounted within the outer casing and having a back wall and a cover, the cover tapering from a first cross-section which matches that of the opening of the outer casing to a second cross-section which defines an insect entry port leading into a chamber defined, at least partially, by the internal surfaces of the back wall and the cover, at least the back wall and the cover being made of a material that is substantially transparent to electromagnetic radiation having the frequency of the source, and the source being positioned within the outer casing outside the chamber so as to be visible from the open end of the outer casing through the cover.
- 2. An insect trap as claimed in claim 1, wherein the inner casing further comprises side wall means connected to the cover at its first cross-section and to the back wall, the chamber being defined by the internal surfaces of the back wall, the cover and the side wall means.
- 20 closed end opposite to its opening, and the inner casing has a cross-section which complements that of the outer casing in such a manner that the inner casing is a close fit within the outer casing at least at the opening of the outer casing, the cover tapering towards the back wall of the inner casing, and the back wall of the inner casing being positioned adjacent to the closed end of the outer casing.
  - 4. An insect trap as claimed in claim 3, wherein the source is positioned between the back wall of the inner casing and the closed end of the outer casing.
  - 5. An insect trap as claimed in claim 3 or claim 4, wherein the cover is

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integrally formed with the back wall and the side wall means.

- 6. An insect trap as claimed in any one of claims 1 to 5, wherein the source is a light source.
- 7. An insect trap as claimed in any one of claims 1 to 6, wherein the source is an ultraviolet light source.
- 8. An insect trap as claimed in any one of claims 1 to 7, wherein the outer casing has a generally square cross-section, and the cover takes the form of a square-based pyramid.
  - 9. An insect trap as claimed in claim 8, wherein the entry port is substantially square.
  - 10. An insect trap as claimed in any one of claims 1 to 7, wherein the outer casing has a substantially rectangular cross-section, and the cover is frustoconical.
- 11. An insect trap as claimed in any one of claims 1 to 7, wherein the outer casing has an irregular shape, and the cover is frustoconical.
  - 12. An insect trap as claimed in claim 10 or claim 11, wherein the entry port is substantially rectangular, circular or elliptical.
- 25 13. An insect trap as claimed in any one of claims 1 to 7, wherein the entry port takes the form of an elongate opening defined by angled portions of the cover and internal side wall means.
  - A. An insect trap as claimed in any one of claims 1 to 13, wherein the outer

casing is made of a material that is substantially opaque to electromagnetic radiation having the frequency of the source.

- 15. An insect trap as claimed in any one of claims 1 to 14, wherein the cover and the back wall of the inner casing are made of a plastics material transparent to electromagnetic radiation having the frequency of the source.
  - 16. An insect trap as claimed in any one of claims 1 to 15, wherein the cover and the back wall of the inner casing are made of an acrylic plastics material transparent to electromagnetic radiation having the frequency of the source.
  - An insect trap as claimed in any one of claims 1 to 7, wherein the outer casing is generally cylindrical in configuration, having an annular opening in its cylindrical side wall, the annular opening defining the opening of the outer casing, the inner casing having a tubular compartment, an annular top wall and an annular bottom wall, and the cover being constituted by a pair of frustoconical cover plates which converge towards one another to define an annular entry port which surrounds the tubular compartment, and wherein the source is positioned within the tubular compartment.

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- 18. An insect trap as claimed in claim 17, wherein the trap is of modular construction, having a plurality of trap portions.
- 19. An insect trap as claimed in claim 18, wherein the trap has four portions, each having the cross-section of a quadrant of a circle.
  - An insect trap as claimed in any one of claims 1 to 19, further comprising means for deterring insects from leaving the chamber via the entry port, the deterrent means being positioned within the inner casing adjacent to the

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entry port.

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- An insect trap as claimed in claim 20, wherein the deterrent means is constituted by a plurality of substantially parallel electrodes, adjacent electrodes being of opposite polarity, and the electrodes being spaced apart in such a manner that insects of species commonly regarded as pests can simultaneously touch at least two electrodes of opposite polarity.
- 22. An insect trap as claimed in claim 21, wherein the electrodes are spaced apart by a distance lying within the range of from 0.5 mm to 2.5 mm.
  - 23. An insect trap as claimed in claim 22, wherein the electrode spacing is substantially 1 mm.
- 15 24. An insect trap as claimed in any one of claims 21 to 23, wherein the width of each of the electrodes lies within the range of from 0.5 mm to 2.5 mm.
  - 25. An insect trap as claimed in claim 24, wherein the width of each of the electrodes is substantially 1 mm.
  - 26. An insect trap as claimed in any one of claims 21 to 25, wherein the electrodes are provided with means for connection to an alternating current mains supply.
- 25 27. An insect trap as claimed in claim 26, further comprising current limiting means for limiting the current supplied to the electrodes.
  - An insect trap as claimed in claim 27, wherein the current limiting means is such that insects that contact the deterrent means are stunned or

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disorientated.

29. An insect trap as claimed in claim 1, wherein the chamber is defined by the internal surfaces of side walls of the outer casing the cover and the back wall.

30. An insect trap substantially as hereinbefore described with reference to, and as shown by, Figures 1 to 3, Figures 4 and 5, Figures 6a and 6b, Figures 7a and 7b, Figure 8 or Figure 8 as modified by Figure 9 of the drawings.